

Key-type Selector Switches

A30NZ-□M□-01□A

Keyed 30-mm Selector Switches

Universal Design.

Emphasis on Color Coding, Workability, and Safety.

Easy to Use

- You can connect up to three Contact Blocks in one stage for multistage expansion.
- The terminals can be retightened when Contact Blocks are stacked.
- Contact Blocks can be attached in any direction for easy assembly.
- Screw terminal structure is compatible with round crimp terminals.

Safety

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- Different colors of Contract Blocks (NO: blue, NC: orange) help prevent wiring errors.

Product Lineup

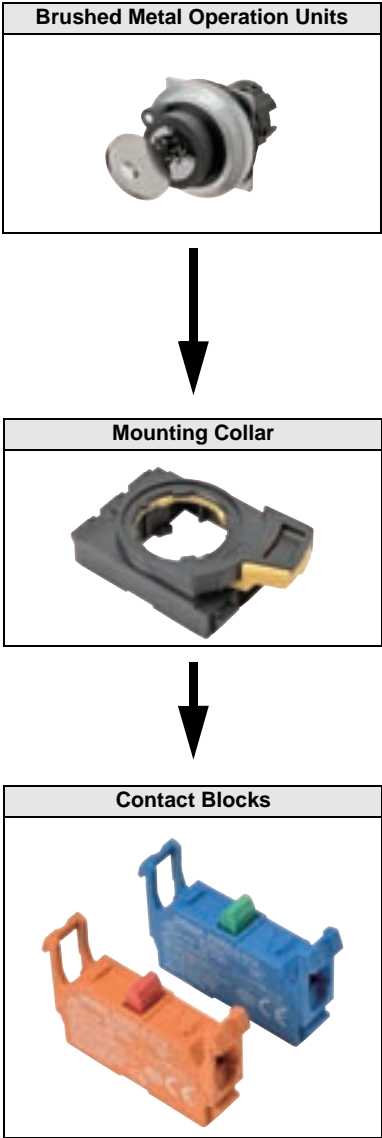
- Meet global safety standards.
- All models are keyed alike.



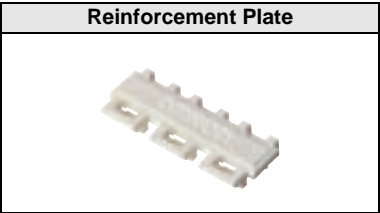
Refer to *Safety Precautions for All Pushbutton Switches/Indicators* and *Safety Precautions* in the A30NZ-M□□-□□A datasheet

Structure

Subassemblies - - - - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.



Note: Use a Reinforcement Plate for greater strength.



- Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
- Accessories and tools: Refer to the A22NN/A22NL.
- Dimensions: Refer to page 7.

Model Number Structure

Model Number Legend - - - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

Subassemblies

A 3 0 N (1) (2) (3) (4) (5) (6)
Z - 2 M M - 0 1 A A

(1) Type

Code	Type
Z	Subassembly

(2) Number of Positions and Bezel Material

Code	No. of positions	Bezel material
2M	2	Brushed metal
3M	3	Brushed metal

(3) Reset Method

Code	Reset method		
M	Manual	Two-position manual	
		Three-position manual	
L	Automatic reset on left	Two-position automatic	
		Three-position left automatic	
R	Automatic reset on right	Three-position right automatic	
B	Automatic reset on left and right	Three-position left or right automatic	

(4) Key Number

Code	No.
01	No.1

(5) Key Release Position

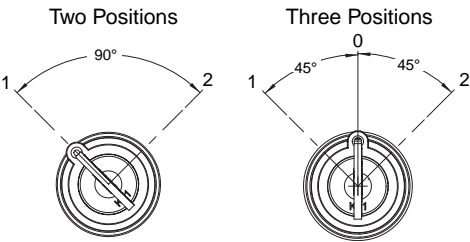
Code	Release position	Two positions	Three positions
A	All positions		
B	Left		
C	Right		
D	Center	---	
E	Left and center	---	
F	Right and center	---	
G	Left and right	---	

○: Release position
●: Locked position

(6) Degree of Protection

Code	Protection
A	IP66

Operation Angle



■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
■ Dimensions: Refer to page 7. ■ Precautions for correct use: Refer to the A30NZ-M□□-□□A.

A30NZ-□M□-01□A

Type

Subassemblies - - - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.

Operation Units


Bezel material and shape		Brushed metal	(1) Key release positions
No. of positions	Reset method	Model	
2	Manual	A30NZ-2MM-01(1)A	A: All positions B: Left C: Right
	Automatic reset on left	A30NZ-2ML-01(1)A	
3	Manual	A30NZ-3MM-01(1)A	A: All positions B: Left C: Right D: Center E: Left and center F: Right and center G: Left and right
	Automatic reset on left	A30NZ-3ML-01(1)A	
	Automatic reset on right	A30NZ-3MR-01(1)A	
	Automatic reset on left and right	A30NZ-3MB-01(1)A	

■ Specifications: Refer to page 6 and refer to the A30NZ-M□□-□□A.
■ Accessories and tools: Refer to the A22NN/A22NL. ■ Dimensions: Refer to page 7.


Ordering Information

Subassemblies - - Order Operation Units, Mounting Collars, and Contact Blocks individually. The same Mounting Collars and Contact Blocks are also used for the A22N Series.


Mounting Collar

Appearance	Model
	A22NZ-H-01


Contact Blocks

Appearance	Contact Specification	Model
	SPST-NO (blue)	A22NZ-S-G1A
	SPST-NC (orange)	A22NZ-S-G1B

Reinforcement Plate

Appearance	Model
	A22NZ-A-C01

Accessories

Appearance	Model
Key 	A22NZ-K-01

A30NZ-□M□-01□A

Specifications (When Operation Unit, Mounting Collar, and Contact Blocks Are Combined)

Characteristics

Type		Key-type Selector Switches
Item		
Allowable operating frequency	Mechanical	30 operations/minute max.
	Electrical	30 operations/minute max.
Insulation resistance		100 MΩ min. (at 500 VDC)
Contact resistance		100 mΩ max. (initial value)
Dielectric strength	Between terminals of same polarity	2,500 VAC at 50/60 Hz for 1 min
	Between each terminal and ground	2,500 VAC at 50/60 Hz for 1 min
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)
Shock resistance	Malfunction	1,000 m/s² max. (malfunction within 1 ms)
Durability	Mechanical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)
	Electrical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)
Ambient operating temperature*1		−25 to 70°C
Ambient operating humidity		35% to 85% RH
Ambient storage temperature*1		−40 to 80°C
Degree of protection*2		IP66
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (IEC 60947-5-1)
Weight		Approx. 75 g (for 1NC/1NO)

*1. With no icing or condensation.
*2. Degree of protection from the front of the panel.

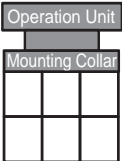
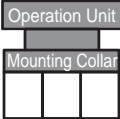
Operating Characteristics (for SPST-NO/ SPST-NC)

Type		Key-type Selector Switches	
Item		Manual reset	Automatic reset
Total travel force (torque) (maximum TTF)		0.6 N·m	0.6 N·m
Total travel (TT)		2 positions: Approx. 90°, 3 positions: Approx. 45°	
Resetting force (torque) (RF)		0.5 N·m max.	---

Note: For Knob-type or Key-type Selector Switches, this is the rotational torque.

Examples of Linked Contact Blocks

□ Contact Blocks

	Key-type Selector Switches	
	2 positions	3 positions
Linking example		

Note: If you increase the number of Contact Blocks, evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.

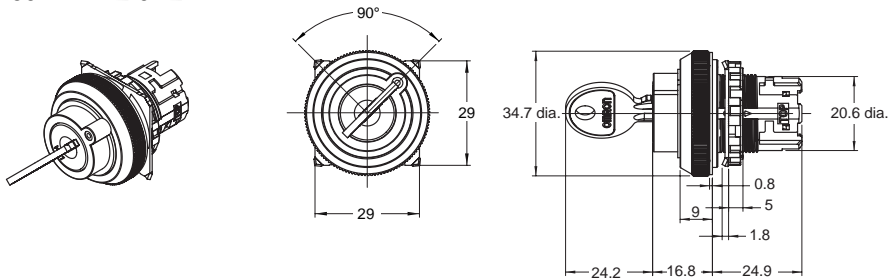
Dimensions

(Unit: mm)

Lighted and Non-lighted Key-type Selection Switches

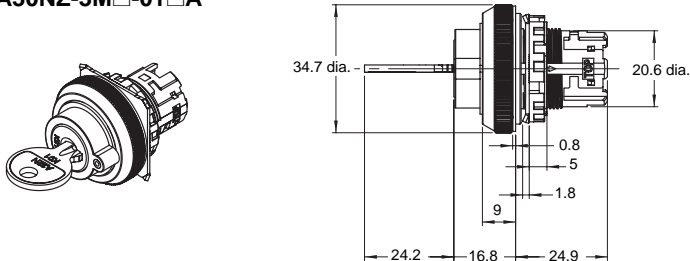
Two-position Switches with Brushed Metal Bezels

A30NZ-2M□-01□A

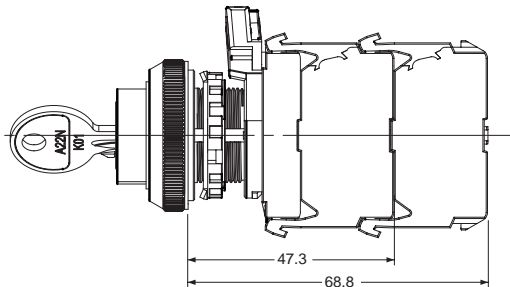


Three-position Switches with Brushed Metal Bezels

A30NZ-3M□-01□A



Depth with Linked Units



Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches/Indicators* for common precautions.
Read the *Safety Precautions* in the A30NZ-M□□-□□A datasheet.

Precautions for Correct Use

Insert the key all of the way to the back of the cylinder before you turn it.

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CSM_1_1_0415

Cat. No. A245-E1-01

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